

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-044858

(43)Date of publication of application : 15.02.2000

(51)Int.Cl. C09D 11/00
C09D151/00
C09D153/00
C09D183/10

(21)Application number : 11-208006

(71)Applicant : E I DU PONT DE NEMOURS & CO

(22)Date of filing : 22.07.1999

(72)Inventor : PEARLSTINE KATHRYN AMY
PAGE LORETTA ANN GREZZO

(30)Priority

Priority number : 98 120922 Priority date : 22.07.1998 Priority country : US

(54) AQUEOUS PIGMENTED INK COMPOSITION FOR INK JET INK FOR PRINTING ON VINYL

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject ink composition, capable of forming durable, water-impermeable and light-resisting printed images on a hydrophobic substrate without requiring a pre-treatment or an after-treatment, by compounding an aqueous vehicle, a surfactant, an insoluble colorant and a polymeric dispersant which are specified, respectively. SOLUTION: This ink composition for ink jet, which is suitable for being directly printed on a hydrophobic substrate, comprises (A) an aqueous vehicle, which comprises at least water and a water-compatible solvent selected from a group consisting of glycols and glycol ethers and has a water content of ≈ 80 wt.% based on the total weight of the vehicle, in an amount of, preferably, 70-99.8 wt.% (based on the total weight of the composition), (B) an insoluble colorant (having a particle diameter of, preferably, $0.01-0.3 \mu\text{m}$) in an amount of, preferably, 1-8 wt.% (C) a polymeric dispersant in an amount of, preferably, 0.1-8 wt.% and (D) a surfactant selected from silicone surfactants and fluorinated surfactants in an amount of, preferably, 2-4 wt.%.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japanese Patent Office